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5 data packets are reordered and reassembled and then the payload contents are scanned to determine whether they conform to predetermined requirements. Data packets which do not reorder or reassemble correctly or which do not conform to the predetermined requirements may be dropped. Dropping packets which do not reorder or reassemble correctly or which do not conform to the predetermined requirements prevent denial of service attack which exploit bugs in the TCP/IP implementation or shortcomings in the TCP/IP specification The traffic flow scanning engine is further operable to determine whether the data packets are associated with validated traffic flows. Those data packets associated with validated traffic flows are assigned to a higher priority while those not associated with a validated traffic flow are assigned to a low priority, which may occupy no more than a predetermined maximum of the available bandwidth. Assigning data packets associated with a non-validated traffic flow to a low priority prevent brute force type denial of service attacks designed to clog networks.